ELMO

TT-12

Document Camera Teacher's + Choice



TT-12 Virtually Limitless Camera Positions



Command Attention with Big, Bright, Clear Images



Powerful 96X Zoom

Optical 12X X Digital 8X = 96X

When the TT-12's high-magnification 12X optical zoom is combined with its 8X digital zoom, images can be enlarged up to 96 times for a clear, distortion-free display of even the tiniest details.



for Every Teaching Situation



Adjustable Free-Angle Camera Head & Arm

From above, from the side, up close—explore from any angle! The adjustable camera head and arm can be freely raised, lowered, and rotated to focus attention precisely where it's needed.







Breathtaking Images Made Easy

3.4-Megapixel CMOS Image Sensor

The TT-12's megapixel image sensor captures everything from fine text to three-dimensional objects in 1080p full HD.

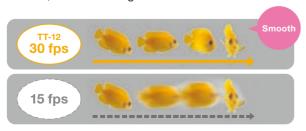
Other Key Features

- Slip-proof rubber feet
- Wireless remote control



Smooth Moving Images at 30 fps

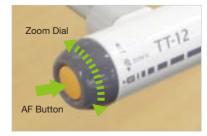
The TT-12 captures and reproduces moving images at 30 fps (frames per second) for the display of truly smooth, natural-looking motion.



Zoom Dial & AF Button

A simple turn of the zoom dial is all that's needed to zoom in and out and make fine zoom adjustments. For added ease of use, the AF (Auto Focus) button enables

easy one-touch auto focusing.



Get Your Point Across Effectively with the TT-12 + ELMO Tablet (sold separately)



Annotate Live Images

Partner the TT-12 with the ELMO CRA-1 Tablet for dynamic smooth-flowing lessons. Teachers can annotate on live images captured by the TT-12 while the image is displayed on a large screen. This empowers teachers with the tools to deliver detailed instructions and achieve greater student engagement.

1 Writable Area

The writable area on the ELMO Tablet corresponds to the screen area.

2 Shortcut Keys

Six shortcut keys ensure easy navigation of the ELMO Tablet.



Move Around the Classroom



Wireless Adapter



Because the ELMO Tablet is wireless and can remotely control the TT-12, teachers can move freely around the classroom (within 50 feet of the TT-12), making it possible to interact with the entire class and individual students.



Record Teaching Materials

Video with audio, time-lapse photography, and still images saved on a computer can all be used to create high-impact teaching materials.



Video with audio

Process illustrations



Time-lapse photography

Note: A PC connection is required for intermittent recording and frame recording.



With ...

Use with a PC or Mac Get added features with Image Mate Accent* Access a variety of teaching materials Analyze student progress

* Software supplied with the ELMO Tablet

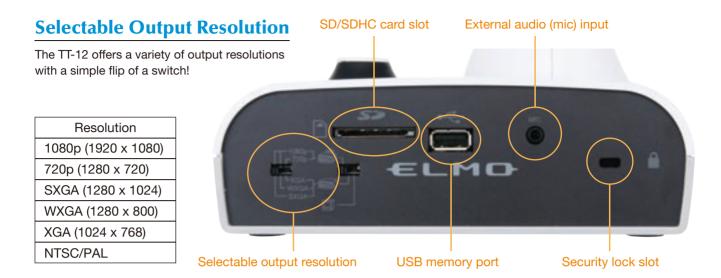
Without! a Computer

or

Just plug and play for total ease of use! Present and annotate without a computer! Instantly engage students!



Save Full-HD Images with Audio



Audio Input & Output

With the TT-12 audio enhancement can be added to classroom presentations via the built-in microphone or an external microphone input (Mic In/Line In). Audio output can be routed to the external HDMI or Audio Line Out port.





Save Classroom Presentations on External Memory

Both still images (jpg) and audio video files (mp4) can be saved on a USB flash drive or SD Memory Card for future use. Files may also be saved to a PC or Mac using Image Mate Software (included).





Imagine What You Can Do with These Lesson Boosters

Presentation Support Tools

The TT-12's ergonomically designed remote control brings convenient functions to classroom presentations.

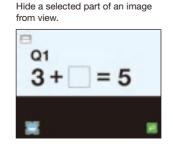


Split Screen



Highlight

Draw attention to a particular



Mosaic Give images a mosaic-like effect.

Picture-in-Picture Display a quarter-size still image along with a live image.

Color Filter

Blacken specific colored parts of an image.

Model TT-12 1/2.8" CMOS 3,400,000 pixels Camera Image pick-up device 2.144 (H) x 1.588 (V) Total pixels 1,920 (H) x 1,536 (V) Effective pixels Frame rate 30 fps Resolution Analog RGB: 800 (H) x 800 (V) TV lines or more Video output: 500 (H) TV lines or more Optics Zoom Powered, 12X optical F3.2-3.6, f=4.0 mm- 48.0 mm Lens Shooting area 1080p: Max. 16 9/16" x 9 3/16" (420 x 233 mm) Min. 1 15/16" x 1 1/16" (48.5 x 27.5 mm) 720p: Max. 16 9/16" x 9 3/16" (420 x 233 mm) Min. 1 15/16" x 1 1/16" (48.5 x 27.5 mm) SXGA: Max. 16 9/16" x 13 1/8" (420 x 334 mm) Min. 1 15/16" x 1 1/2" (48.5 x 38.5 mm) WXGA: Max. 16 9/16" x 10 3/16" (420 x 259 mm) Min. 1 15/16" x 1 3/16" (48.5 x 30.5 mm) XGA: Max. 16 9/16" x 12 5/16" (420 x 313 mm) Min. 1 15/16" x 1 7/16" (48.5 x 36.5 mm) Focus Auto / Manual / Zoom Sync Functions White balance Auto / One-Push /Manual Text1 / Text2 / Text3 / Graphics1 / Graphics2 Image mode Edge enhancement Provided (only for graphics mode) Provided Still image storage Provided Movie storage Provided Digital zoom Gamma setting Provided (only for graphics mode) Graphical OSD (on-screen display) Slide show Provided (image data) SD memory card / SDHC memory card / USB flash drive Image save State presetting Up to 3 user settings Provided (on PC screen) Annotation Brightness control Auto (with level adjustment) / Manual Support functions Highlight, Mask, Scroll (in digital zoom), Mosaic, Split screen, PinP (Picture-in-Picture). Color filter, Microscope, Image rotation (0°/180°) Positive/negative conversion, Color/B&W selection Interface Input selection Main / External RGB output mini D-sub 15-pin connector, female x 1 Output terminals Composite video output RCA pin jack / 75Ω unbalanced x 1 (NTSC/PAL) HDMI output terminal x 1 Line Out terminal 3.5 mm-diameter stereo mini jack x 1 RGB input mini D-sub 15-pin connector, female x 1 Input terminals Mic In/Line Out terminal (shared), 3.5 mm-diameter stereo mini jack x 1 USB device (2.0 compliant) Mini-B receptacle x 1 Ext. control terminal Analog RGB output 1080p: 1,920 x 1,080 @ 60 Hz 720p: 1,280 x 720 @ 60 Hz SXGA: 1.280 x 1.024 @ 60 Hz WXGA: 1,280 x 800 @ 60 Hz XGA: 1,024 x 768 @ 60 Hz Image output: 1080p/720p HDMI output Audio output: PCM 44.1 kHz sampling frequency Video output selection switch Provided (NTSC/PAL) Memory interface SD memory card slot x 1, USB host (2.0 compliant) Type A receptacle x1 Lighting Illumination lamp AC adapter, AC cord, RGB cable, USB cable (for connecting to PC) Others Accessories Anti-glare sheet, Remote control, Strap (for remote control), Stage, AAA batteries (for remote control), Dust cover, Image Mate CD-ROM, Image Mate installation manual Instruction manual (CD-ROM), Basic startup guide, Warranty Security slot 12V DC (AC adapter AC 100-240V) Power source Power consumption 17.5 W (AC adapter included) Dimensions (W x D x H) 14" x 14 11/16" x 16 13/16" (355 x 373.5 x 426.5 mm) setup 7 11/16" x 11 9/16" x 18 7/16" (195 x 294 x 469 mm) folded Weight Approx. 7.1 lbs (3.2 kg) (main unit only)

H: horizontal, V: vertical

Design and specifications are subject to change without prior notice. The images in this brochure are simulated.

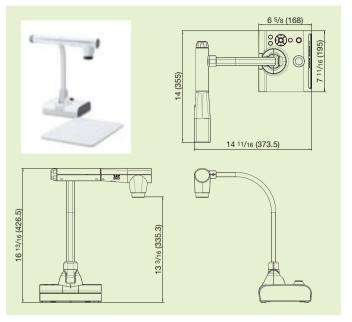
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Future for Our Children

This ELMO product complies with RoHS Directive 2002/95/EC (Restriction Of the use of certain Hazardous Substances in electronic equipment). This compliance helps to ensure a healthier and greener environment for all our children.

Profile



Rear Panel



Option





Microscope Attachment Lens



Visit the ELMO global website to understand what a document camera is in 13 different languages. The ELMO global website introduces you to the useful and effective ways of using the document camera and how the ELMO document camera is used and supported by teachers worldwide. http://www.elmoglobal.com



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